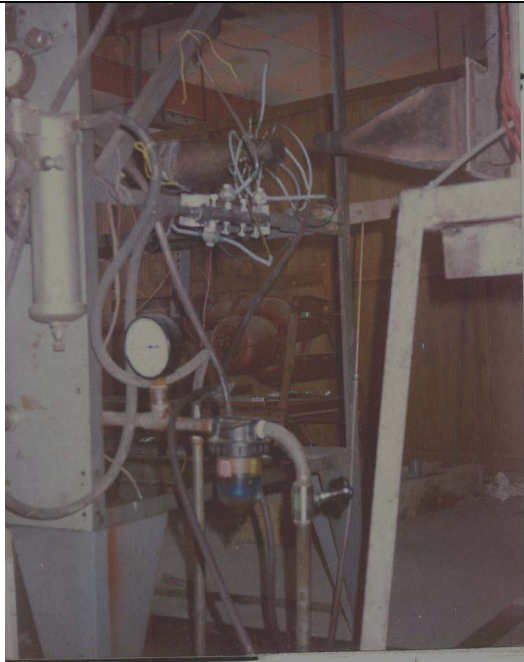
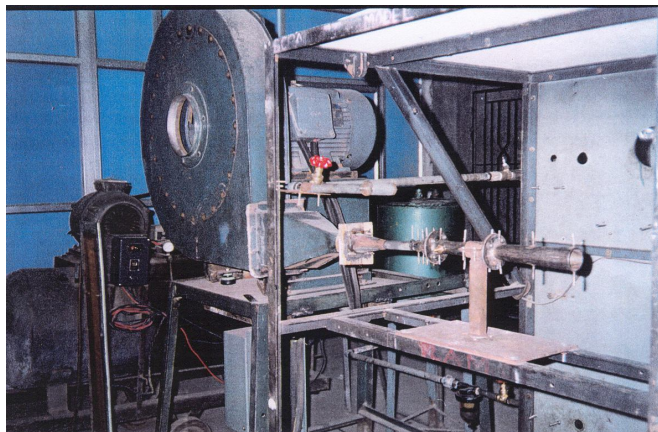


AERO ENGINES AND PROPULSION FACILITIES

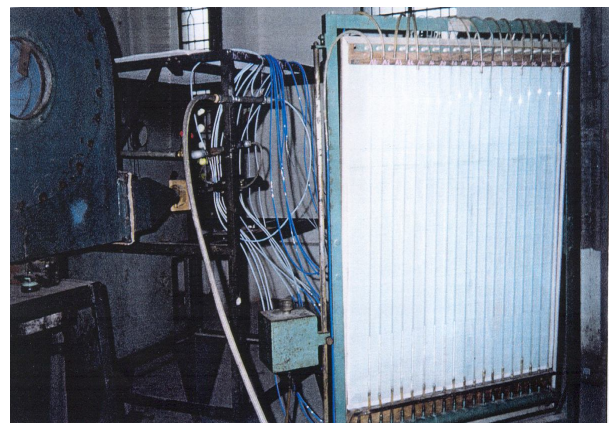
Faculty-in-charge : Dr. B.T.N.Sridhar



Jet Engine Combustor Test Rig (kerosene fuelled) with fuel injection and air supply systems (circular cross-section constant area)



Jet Engine Combustor Test Rig (kerosene fuelled) (circular cross-section- diverging area)



Wall pressure measurement along the of the variable area combustor



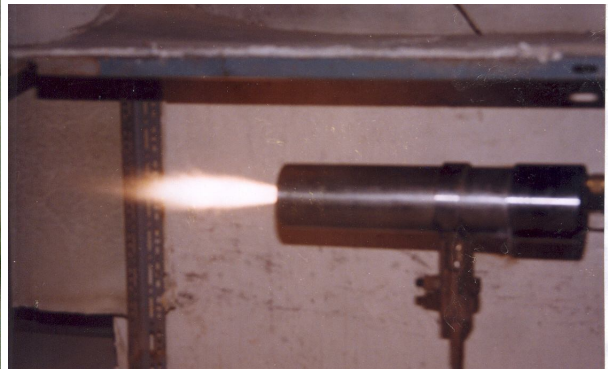
Strand burner facility for measurement of burning rates of filled viscoelastic materials for aerospace propulsion



Mini mixer facility for preparing filled viscoelastic gels for aerospace applications.



Mini solid thruster for performance studies of generator materials .



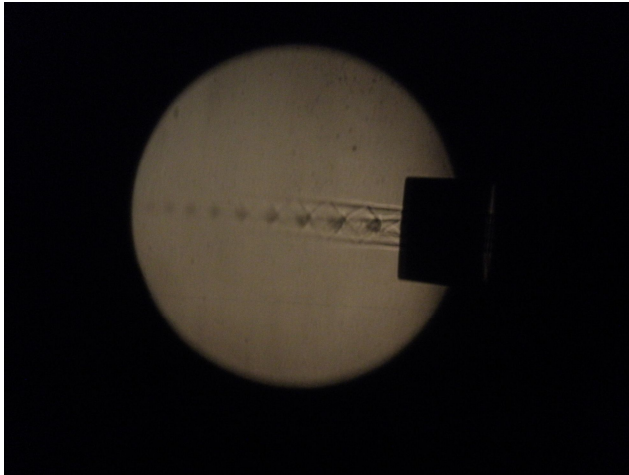
Polypropylene-Oxygen gas based mini hybrid thruster.



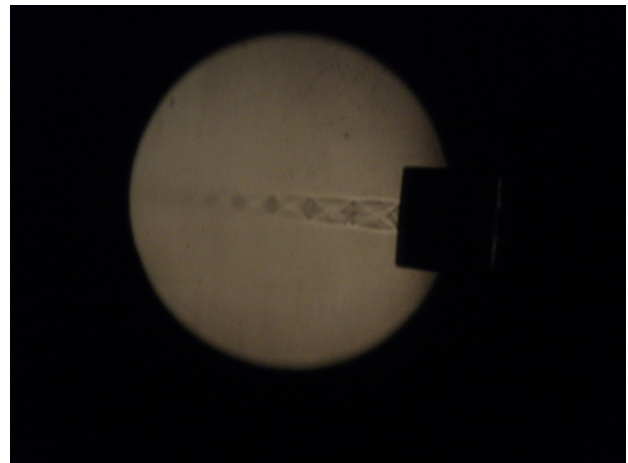
Pneumatic pulveriser for making fine powders for aerospace applications



Experimental facility for high speed coaxial jet studies



Schlieren image of a cruciform supersonic jet



Schlieren image of a circular supersonic jet



Propeller based table top air tunnel for internal flow studies such as diffuser and combustion chamber flows & recirculation zones behind flame holders with spray.



Ballistic evaluation unit for gas generating materials.



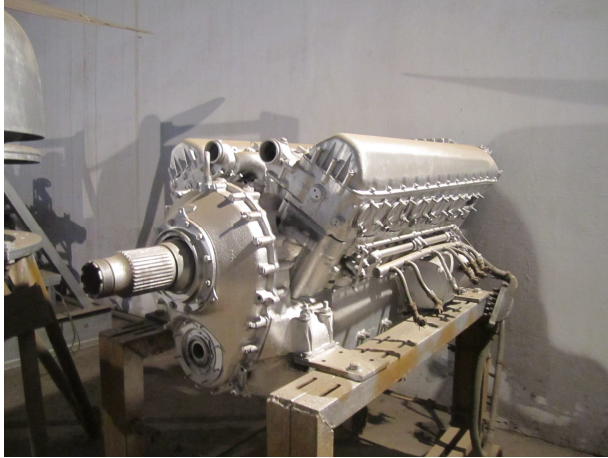
AERO ENGINES STUDY AND DEMONSTRATION FACILITIES



Double row radial piston engine for aircraft propulsion



Oxalic acid based multi-tube heat exchanger for gas generator systems for aerospace applications.



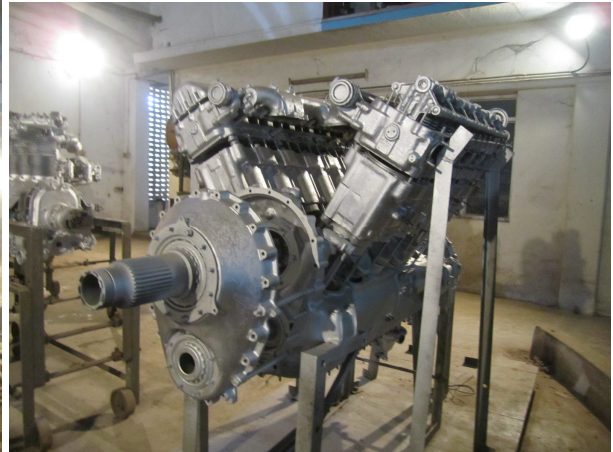
V-type multi-cylinder piston engine for Aircraft propulsion



Centrifugal compressor based gas turbine engine for aircraft propulsion



Axial flow compressor based gas turbine engine for aircraft propulsion



V-type multicylinder based piston engine for aircraft propulsion.